No.



9600159

THE UNITED STRATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

NDSU Research Joundation

THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, THEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC EPILENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE SHIT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PRING IT, OR EXPORTING IT, OR CONDITIONING II FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT LED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (I)

SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE FEBRUARY OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321

SOYBEAN

'Council'

In Testiment Therest, I have hereunto set my hand and caused the seal of the Hant Buriety Protection Office to be affixed at the City of Washington, D.C. this fifth day of Tebruary, in the year of our Lord two thousand one.

Socretary of Agriculture

Alesti .

alun R Port

Acting Commissioner Plant Variety Protection Office Agricultural Marketing Service

REPRODUCE-LOCALLY. Include form number and da			FORM APPROVED - OMB NO. 0581-
U.S. DEPARTMENT OF AGRICULTU AGRICULTURAL MARKETING SERV SCIENCE DIVISION - PLANT VARIETY PROTEC	1CE	The following statements are no 1974 (5 U.S.C. 552a).	nade in accordance with the Privacy A
APPLICATION FOR PLANT VARIETY PROTE			r to determine if a plant variety protei S.C. 2421). Information is held confide C. 2426).
NAME OF APPLICANT(S) (as it is to appear on the Certificate)	Statement on reversey	2. TEMPORARY DESIGNATION OR	3. VARIETY NAME
NDSU Research Foundation		ND88-597	'COUNCIL'
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code.	and Country)	6. TELEPHONE (Include area code)	FOR OPPICIAL (UNE OI)).
c/o Executive Director P.O. Box 5014		701-231-8931	PVPO NUMBER: 960015
Fargo, ND 58105-5014		6. FAX (include area code) 701-231-1013	3-19-96
7. GENUS AND SPECIES NAME	B. FAMILY NAME (Bot	inical)	FILING AND EXAMINATION FEE:
Glycine max	Leguminasa	e	F 2450.00
9. CROP KIND NAME (Common name) Soybean			3-13-96
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF OR NDSU Reasearch Foundation-501(C)3 C	RGANIZATION (corporation, partner Orporation	ship, association, etc.) (Common name)	C CERTIFICATION FEE:
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	E DATE / /
North Dakota 13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVEIS), IF ANY,		May 1989	10/23/00
Theodore C. Helms Department of Plant Sciences North Dakota State University P.O. Box 5051 Fargo, ND 58105 6. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (ip ropagated varieties verification that wer of the United States" (Mail to P	Foundation 05-5014 tissue culture will be deposited end maintain UPOI	
7. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SO [X] YES (If "yes," answer items 18 and 19 below)	OLD BY VARIETY NAME ONLY, AS		on 83(a) of the Plant Variety Protection Act)?
B. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LI GENERATIONS?	IMITED AS TO NUMBER OF 18		OF PRODUCTION BEYOND BREEDER SEED?
D. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BI A YES (II "yes," give names of countries and dates) USA-Release date December 16, 1	□ ио	JLS; July 13, 1999	•
The applicant(s) declare that a viable sample of basic seed of the variety applicable, or for a tuber propagated variety a tissue culture will be dep. The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced to section 41, and is entitled to protection under the provisions of Section Applicant(s) is(are) informed that false representation herein can jeopard SNATURE OF APPLICANT (Owner(s))	osited in a public repository and ma uced or tuber propagated plant varie 42 of the Plant Variety Protection A lize protection and result in penalties	intained for the duration of the certificate, ity, and believe(s) that the variety is new, d ct,	
Dale Zetocha	SIGNATU	THE OF PETERVALI (OWNER(S))	
ME (Please print or ty fol Dale Zetocha	NAME (PI	ease print or type)	

EXHIBIT A

Origin and Breeding History of the Variety COUNCIL

Council, tested as ND no., 88-597, was derived from the cross Ozzie/Dawson, made in 1986. Ozzie and Dawson were developed and released as cultivars by the University of Minnesota, St. Paul, MN. The F1 plant was grown in the winter of 1987 in the greenhouse and the F2 seed was grown in the summer of 1987 at Fargo, ND. The population was advanced by picking one pod from each F2 plant and this F3 seed was grown in Chile, S.A. in the winter of 1987-1988. Individual F3:4 plants were threshed in Chile and the $F_{3:4}$ plant-rows were evaluated in the summer of 1988 in North Dakota. ND88-597 was first tested in replicated yield tests in 1989. In 1992-1994, ND88-597 was evaluated in the Uniform Regional Tests: Northern States as a Maturity Group 0 experimental line. Individual $F_{3:7}$ plants were threshed in 1991 and 76 single plant selections were evaluated for uniformity in the summer of 1992 in Fargo, ND. These 76 purification rows were individually harvested and bulked after evaluation of hilum color, plant maturity, flower color, plant height, pubescence color, seed coat color, and pod color. Breeder seed of ND88-597 was increased in the summer of 1993. In the summer of 1994 the foundation seed of ND88-597 was increased

at Casselton, ND. Council was released in 1994 as an F_{11} generation pure line soybean cultivar and is uniform and stable within commercially acceptable limits. As is true with other soybean cultivars, a small percentage of offtypes can occur within commercially acceptable limits for almost any characteristic during the course of repeated multiplication.

EXHIBIT B

Novelty Statement

- 1. Council was developed primarily for increased yield and suitable maturity for North Dakota. Council is morphologically similar to both parents and has the same flower color, pubescence color, pod color, hilum color, and seed coat color as both parents. However, differences exist between certain high molecular weight proteins of Council compared to the parental lines Dawson and Ozzie in electrophoresis isozyme gels. Photographs of isozyme gels labelled Photo#1 and Photo#2, are submitted as attachments to this application.
 - a. PHOTO #1 Council has an alcohol dehydrogenase isozyme banding pattern which is different than Dawson.
 - b. PHOTO #2 Council shows a pattern in the silver stain of general protein which is different from Ozzie.
- 2. Council matures two days later than Ozzie.

Locus Dawson		Ozzie	New Line ('Council')
Satt009	220	220	220
Satt038	166		166
Satt114	121	121	121
Satt147	177	177	177
Satt177	113	113	113
Satt191	20 9	209	209
Satt242	162	162	147
Satt243	269	269	269
Satt294	267	267	267
Satt308	174	174	171
Satt373	155	101	125
Satt414	301	304	304/307
Satt534	251	260	260

Project 358(1) Data

ş	1	힑	101	=	177	113	509	147	569	267	174	125	304	260
	0 0	22	165	121										
	₩ 6	220	166	121	177	113	209	147	269	267	171	125	304	260
_ [٦ 8	220	168	123	177	113	508	147	269	267	Ē	125	307	260
_	- 1	22	166	121	177	113	802	147	569	267	171	125	307	98
	- 0	22	8	72	13	113	209	147	269	267	£	123	307	788
	- 2	82	186	123	#	13	208	147	569	267	=	23	307	260
	- 4	22	166	121	111	13	509	147	269	267	1	125	307	260
	- e	82	98	12	177	113	203	147	269	267	1	125	307	260
_	- 2	220	166	121	177	13	8	147	289	267	171	125	Š	88
-		220	166	121	177	113	506	147	569	267	171	125	307	280
	-0	220	186	121	177	113	508	147	569	267	7	52	ջ	380
	6	- R	166	13	177	113	- SG	147	289	267	171	125	307	260
\dashv	80	220	166	121	177	113	88	147	269	267	171	125	307	780
(9 2		220	8	121	177	113	808	147	269	267	17	125	307	280
(allele size)		220	98	7	177	13	200	14	269	267	171	125	307	780
Te)			166		177	113	200	147	269 2	267 2	171	52	304	280
Seld	20	220		121								125	l_	
Samples	4	220	166	121	177	113	208	147	269	, 267	14		304	280
	၈	220	38	121	177	113	209	147	269	267	17.1	125	307	360
	2	22	166	121	177	113	208	147	269	267	171	125	307	260
	7-	220	166	121	177	113	209	147	88	267	171	125	304	260
	Bnik	220	166	121	177	113	209	147	269	267	171	125	304/307	280
	Peklng	163	166	97	174	113	209	134	260	267	137	88	316	251
	smsilliW	163	172	109	174	113	227	143	260	282	171	125	307	257
	Ріплет	saft 009	saft 038	saft 114	satt 147	satt 177	satt 191	satt 242	satt 243	satt 294	saft 308	satt 373	satt 414	satt 534

358(1)d.xds

EXHIB (Soyb

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MA TING SERVICE
LIVESTOCK, MEAT, OR ARE DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S) NDSU Research Foundation		TEMPORARY DESIGNATION	VARIETY NAME
North Dakota Agricultural Ex		ND88-597	Council
ADDRESS (Street and No., or R.F.D. No., Cit	ry, State, and Zip Cod	e)	FOR OFFICIAL USE ONLY
PO Box 5014			PVPO NUMBER
Fargo, ND 58105-5014			9600159
Choose the appropriate response which c in your answer is fewer than the number Starred characters * are considered funda when information is available.	of boxes provided,	place a zero in the first box w	hen number is 9 or less (e.g., 0 9
1. SEED SHAPE:	a 0	1	
1 = Spherical (L/W, L/T, and T/W rati 3 = Elongate (L/T ratio > 1.2; T/W =	L W W		(L/W ratio > 1.2; L/T ratio = < 1.2) L/T ratio > 1.2; T/W > 1.2)
		- Liongate Flatterieu	2,17400 3 1.2, 1744 3 1.27
2. SEED COAT COLOR: (Mature Seed)			
1 = Yellow 2 = Green	3 = Brown	4 = Black 5 = Other (Specify)
3. SEED COAT LUSTER: (Mature Hand Shelfe	ed Seed)		
1 = Dull ('Corsoy 79'; 'Braxton')	2 = Shiny ('Nebsoy	/'; 'Gasoy 17')	
4. SEED SIZE: (Mature Seed)		1 7	
1 5 Grams per 100 seeds			
5. HILUM COLOR: (Mature Seed)			
2 1 = Buff 2 = Yellow 3	= Brown 4	≖ Gray 5 = Imperfect Blac	k 6 = Black 7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)			
2 1 = Yellow 2 = Green			
7. SEED PROTEIN PEROXIDASE ACTIVITY:			
2 1 = Low 2 = High			
8. SEED PROTEIN ELECTROPHORETIC BANK	D:		
1 = Type A (SP1 ^a) 2	= Type B (SP1 ^b)		
9. HYPOCOTYL COLOR:			
1 = Green only ('Evans'; 'Davis') 3 = Light Purple below cotyledons ('Bed 4 = Dark Purple extending to unifoliate	son'; 'Pickett 71')	oronze band below cotyledons ('Woker Hampton 266A')	oodworth"; 'Tracy')
10. LEAFLET SHAPE:			
3 1 = Lanceolate 2 = Oval	3 = Ovate	4 = Other (Specify)	

` 11. LEA	FLET SIZE:
2	1 = Small ('Amsoy 71'; 'A5312') 3 = Large ('Crawford'; 'Tracy') 2 = Medium ('Corsoy 79'; 'Gasoy 17') 9600159
12. LEAI	COLOR:
2	1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxton') 3 = Dark Green ('Gnome'; 'Tracy')
★ 13. FLOV	VER COLOR:
2	1 = White 2 = Purple 3 = White with purple throat
★ 14. POD 0	COLOR:
2	1 = Tan 2 = Brown 3 = Black
★ 15. PLAN	T PUBESCENCE COLOR:
1	1 = Gray 2 = Brown (Tawny)
16. PLANT	T TYPES:
2	1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton') 3 = Bushy ('Gnome'; 'Govan')
★ 17. PLANT	HABIT:
3	1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')
★ 18. MATUR	RITY GROUP:
3	1 = 000
★ 19. DISEAS	E REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)
	ERIAL DISEASES:
* 0	
	Bacterial Pustule (Xanthomonas phaseoli var. sojensis)
* [0]	Bacterial Blight (Pseudomonas glycinea)
* [0]	Wildfire (Pseudomonas tabaci)
FUNGA	L DISEASES:
* 0	Brown Spot (Septoria glycines)
	Frogeye Leaf Spot <i>(Cercospora sojina)</i>
	Race 1 Race 2 Race 3 Race 4 Race 5 Other (Specify)
	Target Spot (Corynespora cassiicola)
ا ق	Downy Mildew (Peronospora trifoliorum var. manshurica)
0 1	Oowdery Mildew (Microsphaera diffusa)
* 0 E	Brown Stem Rot (Cephalosporium gregatum)
0 s	item Canker (Diaporthe phaseolorum var. caulivora)

FUNGA	REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 AL DISEASES: (Continued)	2 = Resistant) (Continued)	
*	AL DISEASES: (Continued)		· ·
× [0] F			960015
	Pod and Stem Blight (Diaporthe phaseolorum var; sojae)		700013
0 P	Purple Seed Stain (Cercospora kikuchii)		
1 F	Rhizoctonia Root Rot (Rhizoctonia solani)		
Р	Phytophthora Rot <i>(Phytophthora megasperma var. sojae</i>	ı	
* 2 R	Race 1 2 Race 2 1 Race 3 1	Race 4 1 Race 5	1 Race 6 1 Race 7
1 R	Race 8 1 Race 9 1 Other (Specify)		
	DISEASES:		
	and Blight (Tobacco Ringspot Virus)		
<u>ا آ</u>	'ellow Mosaic (Bean Yellow Mosaic Virus)		
* 0 c	owpea Mosaic (Cowpea Chlorotic Virus)		
0 Pc	od Mottle (Bean Pod Mottle Virus)		
★ 0 se	eed Mottle (Soybean Mosaic Virus)		
NEMATO	ODE DISEASES:		
So	pybean Cyst Nematode (Heterodera glycines)		
★ 1 Ra	ace 1 1 Race 2 1 Race 3 1	Race 4 1 Other (S	Specify)
0 La	ance Nematode (Hopiciaimus Colombus)		
. =	outhern Root Knot Nematode (Meloidogyne incognita)		
	orthern Root Knot Nematode (Meloidogyne Hapla)		
	anut Root Knot Nematode (Meloidogyne arenaria)		
0 Rei	niform Nematode (Rotylenchulus reniformis)		
ООТ	THER DISEASE NOT ON FORM (Specify):		
n PHYSIOI OC	GICAL RESPONSES: (Enter 0 = Not Tested; 1 = Susce		
<u> </u>		eptible; 2 = Hesistant)	
	n Chlorosis on Calcareous Soil		
<u> </u>	ner (Specify)		
1. INSECT REA	ACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = F	Resistant)	
0 Mex	xican Bean Beetle (Epilachna varivestis)		
0 Pota	ato Leaf Hopper (Empoasca fabae)		
	er (Specify)	· · · · · · · · · · · · · · · · · · ·	
2. INDICATE W	WHICH VARIETY MOST CLOSELY RESEMBLES THA	AT SUBMITTED.	
CHARACTI		CHARACTER	NAME OF VARIETY
	Ozzie	Seed Coat Luster	Ozzie
Plant Shape		Occu Cost Euster	
Plant Shape Leaf Shape	Ozzie	Seed Size	Ozzie
	Ozzie Ozzie	Seed Size Seed Shape	Ozzie Ozzie

FORM LMGS 470 57 75 031

VARIETY	NO. OF DAYS	PLANT LODGING	CM PLANT	1 LEAFLE SIZE I SEED CONTENT	ITENT	96001 SEED SIZE G/100	NO. SEEDS/		
	MATURITY	SCORE	HEIGHT	CM Width	CM Length	% Protein	% Oil	SEEDS	POD
Council Submitted	131	1.4	86	7.62	11.61	37.0	20.8	15.4	2.4
OZZ1e Name of Similar Variety	129	1.5	86	7.8	12.16	35.6	21.4	15.7	2.6

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

EXHIBIT E

Statement of the basis of applicant's ownership

Dr. Theodore Helms, an employee of the North Dakota Agricultural Experiment Station and North Dakota State University, is the plant breeder who developed 'COUNCIL', the soybean cultivar for which Plant Variety Protection is hereby sought. The employee by agreement and because of the condition of the use of the facilities and funds of the North Dakota Agricultural Experiment Station and North Dakota State University has assigned all ownership rights to 'COUNCIL' soybean to the North Dakota Agricultural Experiment Station and North Dakota State University.

North Dakota State University on behalf of the North Dakota

Agricultural Experiment Station has assigned all ownership to the

NDSU Research Foundation. The NDSU Research Foundation is a

nonprofit corporation set up to own and manage the intellectual

property of North Dakota State University.